

ATTACHMENT 4

Budget

Table 6 – Project Budget presents a breakdown of the total project cost by line item. A brief narrative to describe each budget line item in Table 6 is presented in Sub-sections a through i.

a. Line (a) Direct Project Administration Costs

Line (a) Direct Project Administration Cost is the estimated cost of Orange County Public Works (OCPW) staff time that will be spent on project administration and management. The OC Public Works personal expected to charge to this item include a Civil Engineering Assistant, a Civil Engineer, a Senior Civil Engineer, an Engineering Supervisor, and an Engineering Manager. These individuals work in the Project Management Section of OC Public Works. The table below presents a detailed estimate of hours and cost by personnel category.

Direct Project Administration Costs						
Work Task	Category					Totals
	Engineering Manager \$100/hr	Engineering Supervisor \$90/hr	Senior Civil Engineer \$80/hr	Civil Engineer \$75/hr	C.E. Assist. \$70/hr	
	\$100	\$80	\$80	\$75	\$70	
Plan Review	80	80	320	480		\$76,000
Utility Work	20	20	20	320	20	\$163,200
Specification Review	60	60	300	300		\$104,400
Reports	20	20	160	320	20	\$146,400
Permitting	80	160	600	600		\$292,800
Cost Estimate	4	4	80	80		\$96,960
Other paperwork	80	80	600	600	44	\$96,640
Construction Assistance	120	120	160	300		\$295,200
Total Hours	464	544	2240	3000	84	6,332
Total-Project Administration Costs	\$46,400	\$43,520	\$179,200	\$225,000	\$5,880	\$500,000

b. Line (b) Land Purchase/Easement

The property for the project (21.2 acres) is owned by the County of Orange/Orange County Flood Control District with the exception of a 200-ft by 90-ft piece of land owned by the City of Garden Grove. The land owned by the City of Garden Grove is not required for the project; however, it would be beneficial. The City of Garden Grove is providing this piece of land at no cost to the County. There are some minor costs associated with the acquisition of this land; however, the costs are sufficiently minor (less than \$5,000) that they do not need to be included in the project budget and the County will cover those costs.

Table 6 - Project Budget

Proposal & Project Title: Haster Retarding Basin and Haster Pump Station

		(a)	(b)	(c)	(d)	(e)
Budget Category		Non-State Share* (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs	\$250,000	\$250,000		\$500,000	50%
(b)	Land Purchase/Easement	\$0	\$0		\$0	0%
(c)	Design Engineering	\$400,000	\$400,000		\$800,000	50%
(d)	Construction/Implementation	\$13,677,100	\$13,677,100		\$27,354,200	50%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$325,700	\$0		\$325,700	100%
(f)	Construction Administration and Management	\$487,150	\$812,850		\$1,300,000	37%
(g)	Other Costs	\$0	\$0		\$0	0%
(h)	Contingency	\$537,150	\$537,150		\$1,074,300	50%
(i)	Grand Total (Sum rows (a) through (h) for each column)	\$15,677,100	\$15,677,100	\$0	\$31,354,200	50%

***List sources of funding:** *The source of funding match (Non-State Share) will come from Orange County Flood Control District funds budgeted for this project*

c. Line (c) Planning/Design/Engineering/Environmental Documentation

Line (c) Design Engineering is the cost of the OC Public Works contract with AKM Consulting Engineers for preparation of plans and specifications for construction of the project. AKM Consulting Engineers is operating via Agreement D03-024 in an amount of \$1,727,000 for this project. The majority of this design cost for this project was expended in years past. The total amount budgeted on Line (c) is \$800,000. This budget will cover costs expenditures from October 20, 2009 through the end of the contract. As of April 2011 there is approximately \$650,000 remaining in the AKM contract to complete the plans, specifications and construction cost estimate. The Line (c) budget is split into 50% Non-State Share (Funding Match) and 50% Grant Funding Match. The work effort for County staff to review the plans and specifications is included within Line (a) Direct Project Administration Costs. The AKM Consulting Engineers - Engineering Fee Table and schedule of hourly rates is included at the end of this attachment.

d. Line (d) Construction/Implementation

Line (d) Construction/Implementation is the total estimated cost for construction of the proposed retarding basin and pump station. For reference, the Preliminary Design Report (PDR) completed by AKM Consulting Engineers is enclosed within Attachment 3 of this grant application. The construction cost estimate in the PDR is escalated from 2008 to 2009 dollars, which results in a 2009 construction cost of \$27.3 million. The Line (d) budget is split into 50% Non-State Share (Funding Match) and 50% Grant Funding Match.

e. Line (e) Environmental Compliance/Mitigation./Enhancement

Line (e) Environmental Compliance/Mitigation/Enhancement is the cost of the OC Public Works contract with AECOM to prepare documents for the CEQA compliance. An Environmental Impact Report has been completed by AECOM and is currently in the public review and comment period. The AECOM contract for the CEQA work totaled \$325,700. The vast majority of those funds were expended in 2010 with the final amounts expected to be expended by September 2011 to respond to public review comments. The Line (e) budget is allocated to 100% Non-State Share (Funding Match).

f. Line (f) Construction Administration

Line (f) Construction Administration and Management is the estimated cost to provide construction management for this project. This work effort is expected to be completed by a combination of in-house County forces and contracted Construction Inspection staff. The total amount budgeted is \$1,300,000, which is approximately 4.8 percent of the construction cost in Line (d). To offset the 100% Funding Match on Line (e) for CEQA compliance. The Line (f) budget is split into 37% Non-State Share (Funding Match) and 63% Grant Funding Match.

g. Line (g) Other Costs

Line (g) Other Costs is not used.

h. Line (h) Construction/Implementation Contingency

Line (h) Construction/Implementation Contingency is the contingency to cover change orders during construction. The total amount budgeted is \$1,074,300, which is approximately 3.9 percent of the construction cost in Line (d). This contingency falls within the allowable 5 percent allowable limit for new project that is set in Section 6854-Construction of the State Administrative Manual.

i. Line (i) Grand Total

Line (i) Grand Total is the sum rows (a) through (h) for each column. The total amount budgeted is \$31,354,200. The Line (i) budget is split into 50% Non-State Share (Funding Match) and 50% Grant Funding Match.

Table 7 presents the summary. The Haster Retarding Basin and Haster Pump Station is the sole project for this grant application,

Table 7 - Summary Budget					
Proposal Title: Haster Retarding Basin and Haster Pump Station					
Individual Project Title	Non-State Share (Funding Match)	Requested Grant Funding (DWR Grant Amount)	Other State Funds Being Used	Total	% Funding Match
Haster Retarding Basin and Haster Pump Station	\$15,677,100	\$15,677,100	\$0	\$31,354,200	50%
Grand Total	\$15,677,100	\$15,677,100	\$0	\$31,354,200	50%

AKM Consulting Engineers - Engineering Fee
Project: Haster Retarding Basin and Haster Pump Station

Task Description		Original Budget	Budget Increase	Budget Total
Task 1	Initial Site Visit and Review of Existing Project Documents	\$5,990	\$0	\$5,990
Task 2	Project Schedule	\$3,000	\$0	\$3,000
Task 3	Meetings	\$31,585	\$20,946	\$52,531
Task 4	Perform Hydraulic Engineering Analysis	\$20,200	\$0	\$20,200
Task 5	Surveying	\$14,000	\$0	\$14,000
Task 6	Identify Required Right-of-Way	\$3,154	\$0	\$3,154
Task 7	Water Quality Enhancements	\$18,680	\$0	\$18,680
Task 8	Preliminary Engineering Report	\$56,280	\$0	\$56,280
Task 9	Permits	\$8,240	\$6,612	\$14,852
Task 10	Utilities	\$18,310	\$11,255	\$29,565
Task 11	Instrumentation	\$6,970	\$0	\$6,970
Task 12	Design of Mechanical and Electrical Systems	\$66,080	\$30,672	\$96,752
Task 13	Design of Pump Station	\$161,980	\$92,898	\$254,878
Task 14	Design of Discharge Lines and Outlet Structure	\$10,990	\$7,536	\$18,526
Task 15	Preliminary Construction Plans and Basis of Design Report (BODR)	\$109,220	\$0	\$109,220
Task 16	Design Seminar	\$3,720	\$0	\$3,720
Task 17	Conduct Three (3) Minimum Evening Public Meetings or Workshops	\$13,664	\$5,646	\$19,310
Task 18	Final PS&E	\$162,204	\$107,754	\$269,958
Task 19	Special Provisions	\$24,410	\$6,588	\$30,998
Task 20	Quantity Calculations	\$11,790	\$8,004	\$19,794
Task 21	Engineer's Cost Estimate	\$6,690	\$1,740	\$8,430
Task 22	Design Notebook	\$4,040	\$1,176	\$5,216
Task 23	Final Acceptance	\$4,132	\$1,350	\$5,482
Task 24	Operations and Maintenance (O&M) Manual	\$2,820	\$822	\$3,642
Task 25	Construction Support Services	\$100,000	\$147,653	\$247,653
Task 26	Perform Environmental Site Assessment	\$10,081	\$0	\$10,081
Task 27	Mitigation Plan	\$20,000	\$0	\$20,000
Task 28	Quality Assurance/Quality Control	\$3,770	\$0	\$3,770
Reimbursable Expenses		\$25,000	\$5,000	\$30,000
Additional Scope Services				
New Task 29	Dewatering Study	\$0	\$68,864	\$68,864
New Task 30	Additional Geotechnical Studies	\$0	\$35,040	\$35,040
New Task 31	Hydraulic Study to Accommodate Soccer Fields and a Golf Practice Facility	\$0	\$30,060	\$30,060
New Task 32	Grading Plan Revisions	\$0	\$60,216	\$60,216
New Task 33	Channel Inlet Extension	\$0	\$100,980	\$100,980
New Task 34	Downstream Channel Modifications	\$0	\$49,188	\$49,188
Total		\$927,000	\$800,000	\$1,727,000

AKM CONSULTING ENGINEERS Schedule of Hourly Rates	
Labor Classification	Hourly Rate
Principal	\$174.00
Project Manager	\$174.00
Project Engineer	\$138.00
Senior Engineer	\$126.00
Associate Engineer	\$102.00
Assistant Engineer	\$86.00
Senior Designer/Senior CADD Technician	\$84.00
Designer/CADD Technician	\$79.00
Senior Draftsman	\$66.00
Draftsman	\$62.00
Engineering Aide	\$50.00
Data or Word Processing	\$60.00
Office Support	\$50.00